

# CLAIMS

1 1. A device for axial stopping of a rotor in particular an armature of an  
2 electric motor, for balancing machines, said rotor (5) having a support shaft (4)  
3 defining a rotation axis (4a) and two end faces (4b) transverse to said rotation  
4 axis (4a), said device comprising at least one thrust unit having an abutment  
5 surface (8) adjacent to one said end face (4b) and adapted to exert a repulsive  
6 force on said end face (4b) able to axially stop said support shaft (4) and to  
7 maintain an interstice (1a) between said abutment surface (8) and said end face  
8 (4b) of said support shaft (4).

1 2. A device as claimed in Claim 1, wherein said thrust unit comprises fluid-  
2 emitting means (9) to form a layer of fluid between said abutment surface (8) and  
3 end face (4b), said layer of fluid exerting said repulsive force and defining said  
4 interstice (1a).

1 3. A device as claimed in Claim 2, wherein said fluid dispensed by said  
2 emitting means (9) is air under pressure.

1 4. A device as claimed in Claim 3, wherein said thrust unit comprises an  
2 abutment element (10) defining said abutment surface (8) on a face thereof and  
3 having at least one hole (11) for passage of said air under pressure at said  
4 abutment surface (8).

1 5. A device as claimed in Claim 4, wherein said abutment element (10) is a  
2 foil element and wherein said at least one hole (11) is a through hole formed in  
3 said foil element (10).

1 6. A device as claimed in Claim 4, wherein said emitting means (9)  
2 comprises at least one pipe (13) for feeding air under pressure and one sleeve  
3 (12) placed at the end of said feeding pipe (13) and engaged with said abutment

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4 element (10) at said at least one hole (11).

1 7. A device as claimed in Claim 6, wherein said abutment element (10)  
2 comprises attachment members (15) rigidly mounted thereon, for connection with  
3 said sleeve (12).

1 8. A device as claimed in Claim 7, wherein said attachment members (15)  
2 comprise a threaded block (16) susceptible of being engaged by screwing by  
3 said sleeve (12).

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